**Grade:**  $K - 6^{th}$  **Time:** 1 hour

Season: Spring, summer, fall

# **Tree Cycle and Rotten Log Critters**

### **National Science Teaching Standards**

A. Science as INQUIRY

**B. PHYSICAL** Science

C. LIFE Science

F. Science in PERSONAL and SOCIAL PERSPECTIVE

### **Objective:**

- Using observation, students will be able to describe the life cycle of a tree.
- Students will record observations of animals found living in a rotten log.
- Students will understand all stages of life provide valuable habitat.
- Students will compare recycling in the forest with recycling at home and school.

## **Pre Activity:**

- "Adopt a Tree" activity, *Iowa Supplements to Project Learning Tree*, pp.49-53.
- "Life Cycle of a Tree" activity, *Iowa Supplements to Project Learning Tree*, p. 71.

# **Equipment:**

- critter identification cards
- bug boxes
- clipboards
- worksheets
- pencils

#### **Procedure:**

- 1. Meet at the stump outside the classroom.
- 2. Divide the students into groups of 2-3.
- 3. Pass out equipment.
- 4. Take the group to a wooded area where various aged trees will be found (i.e. seeds, seedling, sapling, mature trees, dead trees) Have students discover the various stages of the life cycle of a tree.
- 5. With younger students role play the stages first: roll up in a ball (seed); water and sunlight make it grow; grows to a sapling; gets branches (arms stretch out and up) and becomes a mature tree; blows in the wind (sway back and forth); decay hits and strong winds weaken the tree (droop shoulders); falls down totally(back to the ground).
- 6. Talk about one of the dead logs the students have found. Discuss what happens to a dead tree; is it of any importance to the rest of the forest community? Discuss what is meant by recycling. Ask how a dead log is like a recycling station?
- 7. Send the students back to their dead logs for a closer look and fill out the worksheet on the age of their tree.

- 8. Discuss with the group how a dead log is like an apartment building.
- 9. Send them back to the log to see what is living in their "apartment building."
- 10. They can collect 1 specimen of life from their log and put in the bug box.
- 11. Fill out the other worksheet on their critter.
- 12. Come back to the stump and have students share what they collected.
- 13. After sharing, have students return critters to their homes.
- 14. Collect equipment.
- 15. Have students wash hands with soap and water.

### **Post Activity:**

- Bring into your classroom samples of dead logs. Make slides of the things you find and view under the microscope.
- Write a poem about the log you investigated at Springbrook:
  - Line 1: 2 descriptive words
  - Line 2: 3 actions words
  - Line 3: 1 phrase that tells how the log affects the rest of the environment
  - Line 4: 1 word that sums up everything about the log

Now go back and give your poem a title!

Share your poems with the class.

#### **Post Discussion:**

- Would it be a good idea to "clean up" all of the dead logs and trees in the forest? Explain
- How can a dead log/tree be beneficial to wildlife?
- What would happen to the critters living in the logs if there were no logs? Discuss the balance of nature.
- Discuss recycling in the forest. Discuss recycling in the classroom. Discuss recycling at home.